

Contents

Volume 20, Numbers 1–6

Volume 20 Number 1

January–February 2004

In This Issue

1

Review Articles

- The vasodilatory actions of insulin on resistance and terminal arterioles and their impact on muscle glucose uptake
L. H. Clerk, M. A. Vincent, J. R. Lindner, M. G. Clark, S. Rattigan and E. J. Barrett 3

- Progenitor cells in the adult pancreas
A. M. Holland, L. Jorge Góñez and L. C. Harrison 13

- The role of lipids and protein kinase Cs in the pathogenesis of diabetic retinopathy
T. M. Curtis and C. N. Scholfield 28

Research Articles

- All cause mortality in diabetic patients treated with combinations of sulfonylureas and biguanides
E. Mannucci, M. Monami, G. Masotti and N. Marchionni 44

- Soluble adhesion molecules in Finnish schoolchildren with signs of preclinical type 1 diabetes
A. Toivonen, P. Kulmala, J. Rahko, J. Ilonen and M. Knip 48

- Pramlintide reduces postprandial glucose excursions when added to insulin lispro in subjects with type 2 diabetes: a dose-timing study
D. G. Maggs, M. Fineman, J. Kornstein, T. Burrell, S. Schwartz, Y. Wang, J. A. Ruggles, O. G. Kolterman and C. Weyer 55

- The role of sodium hydrogen exchanger-1 in mediating diabetes-induced changes in the retina
M. Cukiernik, D. Hileeto, D. Downey, T. Evans, Z. A. Khan, M. Karmazyn and S. Chakrabarti 61

- Glutathione metabolism and oxidative stress in neonatal rat tissues from streptozotocin-induced diabetic mothers
H. Raza and A. John 72

Features

- Current Literature in Diabetes 79
Conference Calendar 87
-

Volume 20 Number 2

March–April 2004

In This Issue

89

Review Articles

- Pharmacological approach to diabetic retinopathy
J. P. De La Cruz, J. A. González-Correa, A. Guerrero and F. S. de la Cuesta 91

- The role of *pdx1* and *HNF6* in proliferation and differentiation of endocrine precursors
L. Wilding and M. Gannon 114

Evidence for a vicious cycle of exercise and hypoglycemia in type 1 diabetes mellitus <i>A. C. Ertl and S. N. Davis</i>	124
--	-----

Research Articles

Calcium-dependent mitochondrial permeability transition is augmented in the kidney of Goto-Kakizaki diabetic rat <i>P. J. Oliveira, T. C. Esteves, R. Seica, A. J. M. Moreno and M. S. Santos</i>	131
Genetic prediction of type 1 diabetes in a population with low frequency of HLA risk genotypes and low incidence of the disease (the DIABFIN study) <i>R. Buzzetti, A. Galgani, A. Petrone, M. L. Del Buono, H. A. Erlich, T. L. Bugawan, R. Lorini, F. Meschi, G. Multari, P. Pozzilli, M. Locatelli, G. Bottazzo and U. Di Mario</i>	137
A linkage study of 12 IDDM susceptibility loci in the Finnish population <i>A.-P. Laine, S. Nejentsev, R. Veijola, E. Korpinen, M. Sjöroos, O. Simell, M. Knip, H. K. Åkerblom and J. Ilonen</i>	144
Longer breast feeding is an independent protective factor against development of type 1 diabetes mellitus in childhood <i>V. Sadauskaitė-Kuehne, J. Ludvigsson, Ž. Padaiga, E. Jasinskienė and U. Samuelsson</i>	150
Gender differences in GAD antibody-positive diabetes mellitus in relation to age at onset, C-peptide and other endocrine autoimmune diseases <i>E. Lindholm, B. Hallengren and C.-D. Agardh</i>	158

Features

Current Literature in Diabetes	165
Conference Calendar	173

Volume 20 Number 3

May–June 2004

In This Issue	175
---------------	-----

Obituary of Professor Umberto di Mario (1948–2004) <i>Paolo Pozzilli</i>	177
---	-----

Review Articles

Continuous subcutaneous insulin infusion with short-acting insulin analogues or human regular insulin: efficacy, safety, quality of life, and cost-effectiveness <i>R. P. Radermecker and A. J. Scheen</i>	178
Hyperinsulinemic hypoglycemia of infancy: the challenge continues <i>B. H. Dekelbab and M. A. Sperling</i>	189
Skeletal involvement in patients with diabetes mellitus <i>V. Carnevale, E. Romagnoli and E. D'Erasmus</i>	196

Research Articles

CRP and IL-6 concentrations are associated with poor glycemic control despite preserved β -cell function during the first year after diagnosis of type 1 diabetes <i>A. Schölin, A. Siegbahn, L. Lind, C. Berne, G. Sundkvist, E. Björk and F. A. Karlsson</i>	205
Amelioration of the β -cell dysfunction in diabetic APA hamsters by antioxidants and AGE inhibitor treatments <i>A. Takatori, Y. Ishii, S.-I. Itagaki, S. Kyuwa and Y. Yoshikawa</i>	211
A new type 1 diabetes susceptibility locus containing the catalase gene (chromosome 11p13) in a Russian population <i>D. A. Chistiakov, K. V. Savost'yanov, R. I. Turakulov, E. V. Titovich, L. I. Zilberman, T. L. Kuraeva, I. I. Dedov and V. V. Nosikov</i>	219

Effects of glipizide GITS and glibenclamide on metabolic control, hepatic glucose production and insulin secretion in patients with type 2 diabetes <i>E. H. Go, M. Kyriakidou-Himonas and M. Berelowitz</i>	225
The antidiabetic agent gliclazide, reduces high insulin—enhanced neutrophil-transendothelial migration through direct effects on the endothelium <i>M. Okouchi, N. Okayama, H. Omi, K. Imaeda, T. Fukutomi, A. Nakamura and M. Itoh</i>	232
Mortality in type 2 diabetic subjects prescribed metformin and sulphonylurea drugs in combination: cohort study <i>M. Gulliford and R. Latinovic</i>	239
Improved insulin secretory function and reduced chemotactic properties after tissue culture of islets from type 1 diabetic patients <i>R. Lupi, L. Marselli, S. Dionisi, S. Del Guerra, U. Boggi, M. Del Chiaro, C. Lencioni, M. Bugliani, F. Mosca, U. Di Mario, S. Del Prato, F. Dotta and P. Marchetti</i>	246

Features

Current Literature in Diabetes	252
Conference Calendar	260

Volume 20 Supplement 1

May–June 2004

Introduction to the Proceedings <i>W. H. van Houtum, J. A. Rauwerda, N. C. Schaper and K. Bakker</i>	S1
International collaboration on the diabetic foot: a 15-year progress report <i>A. J. M. Boulton</i>	S2
The Charcot foot: historical perspective 1827–2003 <i>L. J. Sanders</i>	S4
The diabetic foot, 2003 <i>M. E. Edmonds</i>	S9
Psychological aspects of diabetic neuropathic foot complications: an overview <i>L. Vileikyte, R. R. Rubin and H. Leventhal</i>	S13
Specific problems of the diabetic foot in developing countries <i>A. Ramachandran</i>	S19
Repetitive ulceration in neuropathic patients <i>H. Connor and O. Z. Mahdi</i>	S23
Diagnostic and therapeutic arterial interventions in the ulcerated diabetic foot <i>G. Andros</i>	S29
Corrective surgery in diabetic foot deformity <i>S. Resch</i>	S34
Achilles tendon lengthening, the panacea for plantar forefoot ulceration? <i>P. Holstein, M. Lohmann, M. Bitsch and B. Jorgensen</i>	S37
Surgical treatment of the infected diabetic foot <i>J. A. Rauwerda</i>	S41
Lower-extremity amputations in patients with diabetes: pre- and post-surgical decisions related to successful rehabilitation <i>B. L. Davis, J. Kuznicki, S. S. Praveen and J. J. Sferra</i>	S45
Therapeutic footwear for people with diabetes <i>P. R. Cavanagh</i>	S51
Diagnosing and treating diabetic foot infections <i>B. Lipsky, A. R. Berendt, J. Embil and F. de Lalla</i>	S56
Introduction to consensus projects <i>K. Bakker</i>	S65

A report from the international consensus on diagnosing and treating the infected diabetic foot	
<i>B. A. Lipsky</i>	S68
Wound healing and treatments for people with diabetic foot ulcers	
<i>W. J. Jeffcoate, P. Price and K. G. Harding</i>	S78
Diabetic foot ulcer classification system for research purposes: a progress report on criteria for including patients in research studies	
<i>N. C. Schaper</i>	S90

Volume 20 Number 4**July–August 2004**

In This Issue	261
----------------------	-----

Review Articles

Diabetes mellitus and alcohol	
<i>A. van de Wiel</i>	263
Stroke in patients with diabetes mellitus	
<i>B. N. Mankovsky and D. Ziegler</i>	268
The kallikrein-kinin system, angiotensin converting enzyme inhibitors and insulin sensitivity	
<i>J. Damas, N. Garbacki and P. J. Lefèbvre</i>	288

Research Articles

LDL oxidative modifications in well- or moderately controlled type 2 diabetes	
<i>P. G. Scheffer, R. M. A. Henry, E. J. M. Wever, G. J. van Rooij, G. Bos, R. J. Heine, J. M. Dekker, M. Diamant, C. D. A. Stehouwer, G. Nijpels, M. A. Blankenstein and T. Teerlink</i>	298
Peroxidase activity in the intestinal tract of Wistar-Furth, BBc and BBdp rats	
<i>P. Courtois, A. Sener, F. W. Scott and W. J. Malaisse</i>	305
Decrease in mitochondrial oxidative protein damage parameters in the streptozotocin-diabetic rat	
<i>R. Kayalı, U. Çakatay, A. Telci, T. Akçay, A. Sivas and T. Altuğ</i>	315
Genetic screening for individuals at high risk for type 1 diabetes in the general population using HLA Class II alleles as disease markers. A comparison between three European populations with variable rates of disease incidence	
<i>R. Hermann, C. S. Bartsocas, G. Soltész, A. Vazeou, P. Paschou, E. Bozas, A. Malamitsi-Puchner, O. Simell, M. Knip and J. Ilonen</i>	322
Thiamine and benfotiamine prevent increased apoptosis in endothelial cells and pericytes cultured in high glucose	
<i>E. Beltramo, E. Berrone, S. Buttiglieri and M. Porta</i>	330

Features

Current Literature in Diabetes	337
Conference Calendar	345

Volume 20 Number 5**September–October 2004**

In This Issue	347
----------------------	-----

Review Articles

'Lipoproteins, glycoxidation and diabetic angiopathy'	
<i>A. J. Jenkins, J. D. Best, R. L. Klein and T. J. Lyons</i>	349
Fructose-mediated non-enzymatic glycation: sweet coupling or bad modification	
<i>C. G. Schalkwijk, C. D. A. Stehouwer and V. W. M. van Hinsbergh</i>	369

Exercise as a therapeutic intervention for the prevention and treatment of insulin resistance <i>J. A. Hawley</i>	383
--	-----

Research Articles

The natural history of insulin content in the pancreas of female and male non-obese diabetic mouse: implications for trials of diabetes prevention in humans <i>M. G. Valorani, M. I. Hawa, L. R. Buckley, A. Afeltra, F. Cacciapaglia and P. Pozilli</i>	394
Increasing of oxidative stress from mitochondria in type 2 diabetes patients <i>S. Nakanishi, G. Suzuki, Y. Kusunoki, K. Yamane, G. Egusa and N. Kohno</i>	399
Effects of insulin-induced hypoglycaemia on energy intake and food choice at a subsequent test meal <i>S. Dewan, A. Gillett, J. A. Mugarza, T. M. Dovey, J. C. G. Halford and J. P. H. Wilding</i>	405
Effectiveness of progressive dose-escalation of exenatide (exendin-4) in reducing dose-limiting side effects in subjects with type 2 diabetes <i>M. S. Fineman, L. Z. Shen, K. Taylor, D. D. Kim and A. D. Baron</i>	411

Features

Current Literature in Diabetes	418
Conference Calendar	426

Volume 20 Supplement 2

November–December 2004

Glucose control in diabetes <i>C. Valeri, P. Pozzilli and D. Leslie</i>	S1
The relationship of postprandial glucose to HbA _{1c} <i>R. Landgraf</i>	S9
Postprandial hyperglycaemia in type 2 diabetes: pathophysiological aspects, teleological notions and flags for clinical practice <i>E. I. Boutati and S. A. Raptis</i>	S13
Postprandial glucose monitoring in type 1 diabetes mellitus: use of a continuous subcutaneous monitoring device <i>B. Manuel-y-Keenoy, J. Vertommen, P. Abrams, L. Van Gaal, I. De Leeuw, D. Messeri and A. Poscia</i>	S24
Insulin therapy and hypoglycaemia: the size of the problem <i>C. G. Fanelli, F. Porcellati, S. Pampanelli and G. B. Bolli</i>	S32
Nocturnal hypoglycaemia in type 1 diabetes – consequences and assessment <i>J. H. De Vries, I. M. E. Wentholt, N. Masurel, I. Mantel, A. Poscia, A. Maran and R. J. Heine</i>	S43
Asymptomatic hypoglycaemia: identification and impact <i>R. Gomis and E. Esmatjes</i>	S47
Continuous glucose monitoring in conditions other than diabetes <i>A. Maran, C. Crepaldi, A. Avogaro, S. Catuogno, A. Burlina, A. Poscia and A. Tiengo</i>	S50

Volume 20 Number 6

November–December 2004

In This Issue	427
---------------	-----

Review Articles

Genetic and perinatal factors as risk for childhood type 1 diabetes <i>K. Larsson, H. Elding-Larsson, E. Cederwall, K. Kockum, J. Neiderud, S. Sjöblad, B. Lindberg, B. Lernmark, C. Cilio, S.-A. Ivarsson and Å. Lernmark</i>	429
---	-----

Obesity, bariatric surgery and type 2 diabetes – a systematic review <i>C. V. Ferchak and L. F. Meneghini</i>	438
Regulatory T-cells in type 1 diabetes <i>A. E. Juedes and M. G. von Herrath</i>	446

Research Articles

Differentiating between effects of streptozotocin <i>per se</i> and subsequent hyperglycemia on renal function and metabolism in the streptozotocin-diabetic rat model <i>F. Palm, H. Ortsäter, P. Hansell, P. Liss and P.-O. Carlsson</i>	452
Determination of glycated hemoglobin in clinically silent hemoglobin variants <i>W. J. Schnedl, T. Lahousen, T. Lang, R. W. Lipp, S. Yonehara, S. Fukunaga, T. Imai and R. R. Little</i>	460
Compared to glibenclamide, repaglinide treatment results in a more rapid fall in glucose level and beta-cell secretion after glucose stimulation <i>E. J. Abbink, P. S. van der Wal, C. G. J. (F.) Sweep, P. Smits and C. J. Tack</i>	466
Oral spray insulin in treatment of type 2 diabetes: a comparison of efficacy of the oral spray insulin (Oralin) with subcutaneous (SC) insulin injection, a proof of concept study <i>J. Guevara-Aguirre, M. Guevara, J. Saavedra, M. Mihic and P. Modi</i>	472
Severe hypoglycaemia in 1076 adult patients with type 1 diabetes: influence of risk markers and selection <i>U. Pedersen-Bjergaard, S. Pramming, S. R. Heller, T. M. Wallace, Å. K. Rasmussen, H. V. Jørgensen, D. R. Matthews, P. Hougaard and B. Thorsteinsson</i>	479

Features

Current Literature in Diabetes	487
Conference Calendar	495
<hr/>	
Author Index	496
Keyword Index	498
Volume Contents	iii

